



2026 Selection Guide

iNergya

广阔科技股份有限公司

inergy Technology Inc.



成立日期
2007 年 11 月



资本额
NTD 457,200 仟元



营业收入
NTD 1,094,185 仟元
2024年



营业淨利
NTD 120,834 仟元
2024年



员工人数
92 人



服务据点
企业总部－新竹
深圳办公室

广阔科技是专注于节能应用之IC设计公司。
公司名为inergy，结合innovation与energy，代表“创新的能源应用”
核心产品：功率金氧半场效电晶体、无刷直流马达驱动控制模组、
数位类比可程式化SoC散热风扇驱动IC，提供低碳、低耗能的高
能源效率产品，从IC到电机、电池及电源管理创新系统设计方案。
成立于2007年，并于2022年在财团法人证券柜台买卖中心
(Taipei Exchange, TPEx)正式上柜交易，股票代码：6693.TWO。

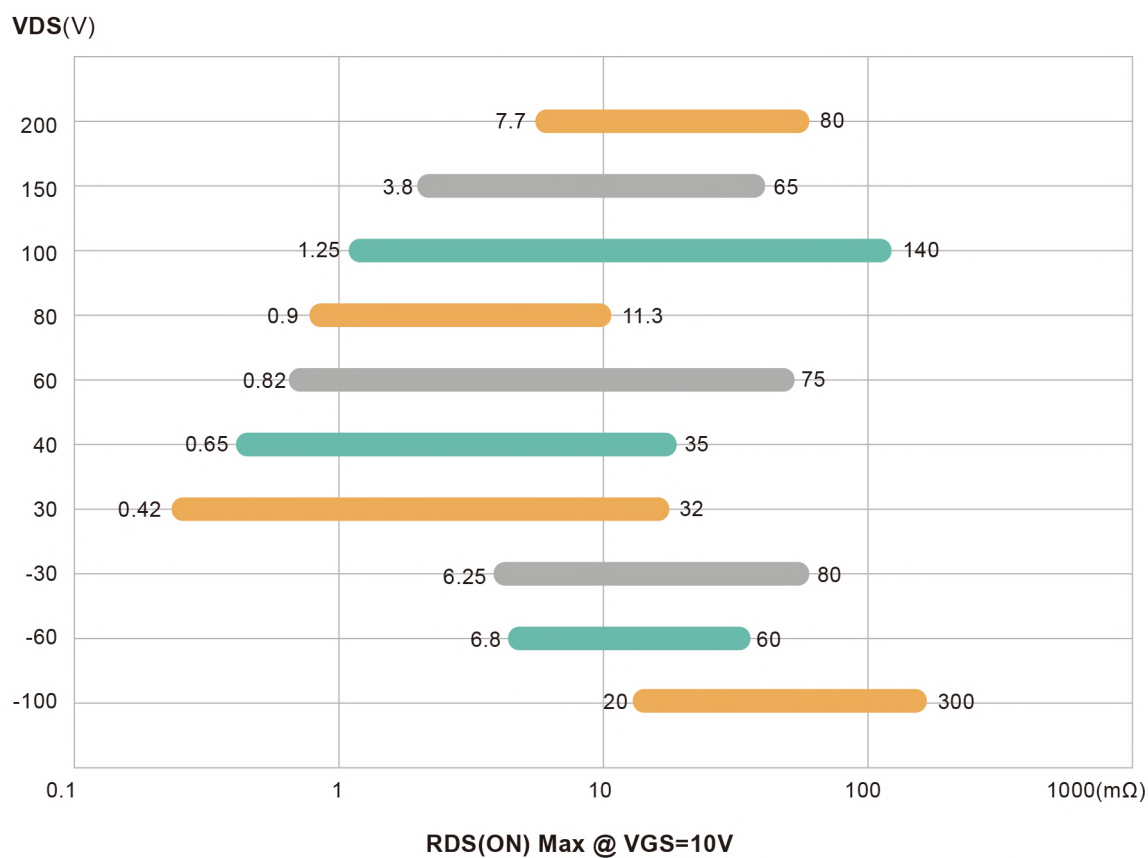




发展历程



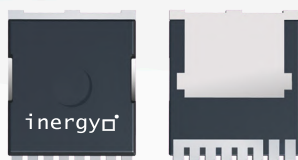
Power MOSFET (Si)



(Optional MSL1)

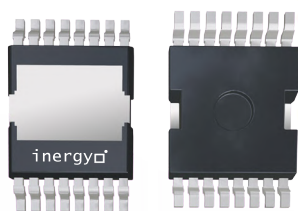
DFN2x2	SOT23-3L	SOP-8L	DFN3x3	PDFN3.3x3.3
				
2 x 2 mm	2.9 x 2.9 mm	4.9 x 6 mm	3 x 3 mm	3.3 x 3.3 mm
TO252-3L	TO252-4L	LFPAK	PDFN5x6	TO263-3L
				
6.6 x 10 mm	6.6 x 9.9 mm	5.1 x 6.1 mm	5.3 x 6.1 mm	10.1 x 15.2 mm
TO263-7L	sTOLL	TOLL	TOLT	TO220-3L
				
9.9 x 15.2 mm	7 x 8 mm	9.9 x 11.7 mm	9.9 x 15 mm	10.1 x 28.6 mm

满足电力电子系统对 高功率密度、高效率和高开关速度的关键



TOLL

优点	应用	特性
• 超低导通电阻 (On-Resistance) • 提高电流载流能力 • 低热阻 • 低电感	• 电动二三轮车 • 电动工具 • 电动自行车 • 电池管理(BMS) • 高性能电源应用	• 尺寸更小, 减少 PCBA 空间 面积缩减 30% (与TO-263封装相比) 厚度缩减 50% (与TO-263封装相比) 封装尺寸: 9.9mm x 11.68mm x 2.3mm(normal) • 提升系统稳定性



TOLT

优点	应用	特性
• 超低导通电阻 (On-Resistance) • 提高电流载流能力 • 低热阻 • 低电感 • 顶部散热 (提升热性能)	• 电动二三轮车 • 电动工具 • 电动自行车 • 高性能电源应用	• 尺寸更小, 减少 PCBA 空间 封装尺寸: 9.9mm x 15.1mm x 2.3mm (normal) • 减少传导损耗 • 提升系统稳定性 • 顶部散热, 更佳的热传导性能, 降低散热片等物料成本

N-channel 20 - 30 V

*:New

Part Number	Package	Type	V _{DS} (V)	V _{GS} (±V)	I _{DS} (A)		R _{DS(ON)} (mΩ max) at V _{GS} =		C _{iss} (pF)	Q _g (nC)
					TC=25°C	TC=100°C	10V	4.5V		
iM1101	DFN1006-3L	NMOS	20	±10	1.2	0.76		500	31	0.8
iM18129*	DFN2x2-6L	NMOS	20	±12	12	12		14	1036	12
iM1837	DFN3.3x3.3-8L	NMOS	20	±12	54			3.2	7914	139
iM1819	PDFN5x6-8L	NMOS	20	±10	124		1.5	1.7	9681	270
iM18121	PDFN5x6-8L	NMOS	20	±12	100	94		2.3	5503	60
iM2302	SOT23-3L	NMOS	20	±12	4.2	2.6		37	260	4.5
iM2309	SOT23-3L	NMOS	20	±12	4.4			35	278	4
iM2311	SOT23-3L	NMOS	20	±10	4.5	2.8		27	466	6.3
iM2319	SOT23-3L	NMOS	20	±12	6.8	4.3		20	1074	30
iM18125	PDFN5x6-8L	NMOS	24	±12	100	88		2.6	5746	57
iM1885	DFN3.3x3.3-8L	NMOS	30	±20	64	59	3.1	4.5	2363	44
iMF409*	LFAK	NMOS	30	±20	273	193	0.63	1.1	14707	266
iMN004N03LF	LFAK	NMOS	30	±20	300	300	0.42	0.78	8366	141
iM1841	PDFN3.3x3.3-8L	NMOS	30	±20	48		6	9	2213	43
iM1841A	PDFN3.3x3.3-8L	NMOS	30	±20	49		5.7	8.5	2550	47
iM1883	PDFN3.3x3.3-8L	NMOS	30	±20	43		7.2	11.7	724	14
iM1887	PDFN3.3x3.3-8L	NMOS	30	±20	64	40	4.4	6.8	3608	64
iM1813	PDFN5x6-8L	NMOS	30	±20	100		1.8	2.9	7400	173
iM1817	PDFN5x6-8L	NMOS	30	±20	44		12	26	1050	19
iM1833C	PDFN5x6-8L	NMOS	30	±20	100	64	2.3	3.4	2423	48
iM1843	PDFN5x6-8L	NMOS	30	±20	62		6	9	2524	48
iM1869	PDFN5x6-8L	NMOS	30	±20	58	37	6.9	11.7	724	13
iM1875	PDFN5x6-8L	NMOS	30	±20	78	50	3.8	6.1	3699	66
iM1877	PDFN5x6-8L	NMOS	30	±20	52	33	8.5	14.3	1258	23
iM1879	PDFN5x6-8L	NMOS	30	±20	105		2.1	3.2	2700	47
iM1881A	PDFN5x6-8L	NMOS	30	±20	139	88	1.2	1.8	5623	100
iMN007N03G	PDFN5x6-8L	NMOS	30	±20	502	316	0.6	0.95	8010	142
iMN008N03G	PDFN5x6-8L	NMOS	30	±20	460	325	0.7	1.1	5571	100
iM2121	SOT23-3L	NMOS	30	±20	4.2	2.7	30	48	370	7.7
iM2323	SOT23-3L	NMOS	30	±20	5.6		20	31	862	16
iM3099	SOT23-3L	NMOS	30	±12	1.1	0.7	408	518	61	1.72
iM3400	SOT23-3L	NMOS	30	±12	4.1	2.6	32	37	778	19
iM4011	SOP-8L	NMOS	30	±20	16	10	5.3	7.3	4738	88
iM4013	SOP-8L	NMOS	30	±20	13	8.7	7	10.5	2414	44
iM5231	TO-252-3L	NMOS	30	±20	48	46	6	9	2300	43

N-channel 40 V

*:New

Part Number	Package	Type	V _{DS} (V)	V _{GS} (±V)	I _{DS} (A)		R _{DS(ON)} (mΩ max) at V _{GS} =		Ciss (pF)	Qg (nC)
					TC=25°C	TC=100°C	10V	4.5V		
iMF403*	LFAK	NMOS	40	±20	212	150	0.95	1.48	14692	262
iMN005N04LFH	LFAK	NMOS	40	±20	325	325	0.66		7204	121
iM18149*	PDFN3.3x3.3-8L	NMOS	40	±20	97	68	2	3.3	2325	51
iM1873	PDFN5x6-8L	NMOS	40	±20	65	41	5.4	7.8	3326	60
iM1895	PDFN5x6-8L	NMOS	40	±20	120	86	1.6		4727	77
iM18111	PDFN5x6-8L	NMOS	40	±20	111	70	2.5	5.4	2484	54
iM18133*	PDFN5x6-8L	NMOS	40	±20	80	74	3		2065	38
iMN008N04G	PDFN5x6-8L	NMOS	40	±20	200		0.65	1.08	8355	168
iMN009N04G	PDFN5x6-8L	NMOS	40	±20	297	210	1		4875	80
iM6211	TO-220-3L	NMOS	40	±20	120	109	2.9	3.7	14160	232
iM6225	TO-220-3L	NMOS	40	±20	90	90	2.5	3.7	2611	54
iM5221	TO-252-3L	NMOS	40	±20	25	16	35	55	650	11
iM5235	TO-252-3L	NMOS	40	±20	20	20	25	45	846	15
iM6303	TO-263-3L	NMOS	40	±20	60	60	2.4		4732	78
iM6309	TO-263-3L	NMOS	40	±20	150	150	1.06		13625	234
iM7201*	TOLL-8L	NMOS	40	±20	400	289	0.74		7214	112

N-channel 45 - 60 V

*:New

Part Number	Package	Type	V _{DS} (V)	V _{GS} (±V)	I _{DS} (A)		R _{DS(ON)} (mΩ max) at V _{GS} =		Ciss (pF)	Qg (nC)
					TC=25°C	TC=100°C	10V	4.5V		
iM1867	PDFN5x6-8L	NMOS	45	±20	96	60	2.9	4.3	2487	53
iM1851	DFN3.3x3.3-8L	NMOS	60	±20	56		6.6	11	2084	37
iMF407*	LFAK	NMOS	60	±20	246	174	0.82	1.5	7391	144
iM1849	PDFN3.3x3.3-8L	NMOS	60	±20	39	24.8	9	15	1527	26.6
iM1857	PDFN3.3x3.3-8L	NMOS	60	±20	40		8.5	15.6	1362	28
iM1829	PDFN5x6-8L	NMOS	60	±20	160	104	2.5	4.5	4894	99
iM1839B	PDFN5x6-8L	NMOS	60	±20	52	33.7	6.25	11	2002	40
iM1845	PDFN5x6-8L	NMOS	60	±20	50.9	32.4	9		1521	26
iM1847	PDFN5x6-8L	NMOS	60	±20	37	23.5	17		724	14
iM1871	PDFN5x6-8L	NMOS	60	±20	52	33	8.5	15.5	1362	27
iM18101*	PDFN5x6-8L	NMOS	60	±20	40	25	14	26	810	16
iM18109	PDFN5x6-8L	NMOS	60	±20	33	21	15	20	853	18
iMN009N06G	PDFN5x6-8L	NMOS	60	±20	320	320	1.05	1.69	7597	153
iM2308	SOT23-3L	NMOS	60	±20	2.5	1.6	75	100	479	9.4

N-channel 60 - 80 V

*:New

Part Number	Package	Type	V _{DS} (V)	V _{GS} (±V)	I _{DS} (A)		R _{DS(ON)} (mΩ max) at V _{GS} =		C _{iss} (pF)	Q _g (nC)
					TC=25°C	TC=100°C	10V	4.5V		
iM4007	SOP-8L	NMOS	60	±20	12.7	8	8.2	15.4	1351	28.6
iM4009	SOP-8L	NMOS	60	±20	9.2	5.8	15.5	31	746	14
iM6227	TO-220-3L	NMOS	60	±20	120	105	3.2	5.2	4749	82
iM5105	TO-251-3L	NMOS	60	±20	48	33	8.5	13	1244	26
iM5207	TO-252-3L	NMOS	60	±20	24	15	56	65	1200	20
iM5229B	TO-252-3L	NMOS	60	±20	60	47	6	11	2019	40
iM5233	TO-252-3L	NMOS	60	±20	31	19	34	43	1023	19.7
iM5239	TO-252-3L	NMOS	60	±20	48	48	3.1	4.9	4683	89
iMN006N06T*	TOLL-8L	NMOS	60	±20	300	298	0.83		16315	264
iM18115	PDFN3.3x3.3-8L	NMOS	80	±20	44	28	11.3	19	1421	32
iM1859	PDFN5x6-8L	NMOS	80	±20	56	36	7.2	12	1875	43
iM1861	PDFN5x6-8L	NMOS	80	±20	45	29	11.3	19	1199	28
iM1889	PDFN5x6-8L	NMOS	80	±20	78	49	3.75	5	5631	110
iMN1R5N08GH	PDFN5x6-8L	NMOS	80	±20	200	177	1.9		7999	131
iMN2R0N08G	PDFN5x6-8L	NMOS	80	±20	100	100	2.6		5531	105
iM6213	TO-220-3L	NMOS	80	±20	80		6		5500	84.3
iM6219	TO-220-3L	NMOS	80	±20	96	70	7.8		2406	45
iM7203*	TOLL-8L	NMOS	80	±20	306	216	1.68		8900	166
iMN007N08T	TOLL-8L	NMOS	80	±20	500	355	0.9		20427	338

N-channel 100 V

*:New

Part Number	Package	Type	V _{DS} (V)	V _{GS} (±V)	I _{DS} (A)		R _{DS(ON)} (mΩ max) at V _{GS} =		C _{iss} (pF)	Q _g (nC)
					TC=25°C	TC=100°C	10V	4.5V		
iM18113	DFN3.3x3.3-8L	NMOS	100	±20	51	32	10	14	1919	43
iM18127*	DFN3.3x3.3-8L	NMOS	100	±20	24	15	18		1163	22
iMF401*	LFPK	NMOS	100	±20	109	77	2.7	4.3	5345	90
iM1821A	PDFN5x6-8L	NMOS	100	±20	54		6		3408	59
iM1821B	PDFN5x6-8L	NMOS	100	±20	54	34	6	8.5	3229	57.3
iM1823	PDFN5x6-8L	NMOS	100	±20	61	38	4.7	7.2	3458	75
iM1825B	PDFN5x6-8L	NMOS	100	±20	44	28	9	13.5	2222	42
iM1827B	PDFN5x6-8L	NMOS	100	±20	38	24	11.8	17.5	1632	30
iM1863	PDFN5x6-8L	NMOS	100	±20	13	8.7	125	135	1037	19
iM18103	PDFN5x6-8L	NMOS	100	±20	100	63	5.6	11	3071	51
iM18105	PDFN5x6-8L	NMOS	100	±20	78	49	7.8	12.3	2738	63

N-channel 100 V

*:New

Part Number	Package	Type	V _{DS} (V)	V _{GS} (±V)	I _{DS} (A)		R _{DS(ON)} (mΩ max) at V _{GS} =		Ciss (pF)	Qg (nC)
					TC=25°C	TC=100°C	10V	4.5V		
iM18107	PDFN5x6-8L	NMOS	100	±20	39	24	14	22	1180	23
iM18137*	PDFN5x6-8L	NMOS	100	±20	103	65	3.75		5329	95
iM18139*	PDFN5x6-8L	NMOS	100	±20	79	56	4.8	8	3651	79
iMN03N10GM	PDFN5x6-8L	NMOS	100	±20	90		3.4	4.8	4808	96
iM2303	SOT23-3L	NMOS	100	±20	1.7	1.1	136	143	1013	19
iM4008	SOP-8L	NMOS	100	±20	11	7	10.5	14	2094	41
iM6217	TO-220-3L	NMOS	100	±20	120	95	4.4		5354	88
iM6221	TO-220-3L	NMOS	100	±20	86	54	2.6		13355	218
iM6223	TO-220-3L	NMOS	100	±20	45	29	18		1147	23
iM6229	TO-220-3L	NMOS	100	±20	120	78	5.2	8.5	3583	77
iM5101	TO-251-3L	NMOS	100	±20	30	23	13	16	3380	58
iM5103	TO-251-3L	NMOS	100	±20	40	25	10.8	15.6	1681	33
iM5223	TO-252-3L	NMOS	100	±20	11	6.9	140	150	1095	19
iM5227	TO-252-3L	NMOS	100	±20	60	38	9	12.5	2066	41
iM5241	TO-252-3L	NMOS	100	±20	45	28	18	28	1060	26
iM6301	TO-263-3L	NMOS	100	±20	80	72	6	8.5	3050	68
iM6307	TO-263-3L	NMOS	100	±20	120	120	1.8	2.7	11921	239
iM6313	TO-263-3L	NMOS	100	±20	120	100	4.4		5328	94
iM6315	TO-263-3L	NMOS	100	±20	150	150	2.2		13576	237
iMN03N10DM	TO-263-3L	NMOS	100	±20	90	90	3.7	5.7	4748	96
iM7127*	TOLL-8L	NMOS	100	±20	120	103	3.6		5335	95
iMN01N10T	TOLL-8L	NMOS	100	±20	300	300	1.4		13574	233
iMN009N10T*	TOLL-8L	NMOS	100	±20	300	266	1.25		13766	284
iMN016N10CT*	TOLL-8L	NMOS	100	±20	324	230	1.6		9790	173
iM7L01*	TOLT-16L	NMOS	100	±20	250	216	1.43		13348	225

N-channel 120 V

*:New

Part Number	Package	Type	V _{DS} (V)	V _{GS} (±V)	I _{DS} (A)		R _{DS(ON)} (mΩ max) at V _{GS} =		Ciss (pF)	Qg (nC)
					TC=25°C	TC=100°C	10V	4.5V		
iM1897	PDFN5x6-8L	NMOS	120	±20	99	62	7.2		4779	80
iM6231*	TO-220-3L	NMOS	120	±20	150	140	4.5		9016	143
iM7121*	TOLLB-8L	NMOS	120	±20	175	123	3.4		9041	146

N-channel 150 - 200 V

*:New

Part Number	Package	Type	V _{DS} (V)	V _{GS} (±V)	I _{DS} (A)		R _{DS(ON)} (mΩ max) at V _{GS} =		C _{iss} (pF)	Q _g (nC)
					TC=25°C	TC=100°C	10V	4.5V		
iM1865A	PDFN5x6-8L	NMOS	150	±25	46	29	53		1133	23
iM18119	PDFN5x6-8L	NMOS	150	±12	18	12	51	56	1364	26
iM18141*	PDFN5x6-8L	NMOS	150	±12	60	42	9.7		4628	73
iM4015	SOP-8L	NMOS	150	±25	4.2	2.6	53		1128	23
iM5237	TO-252-3L	NMOS	150	±25	19	12	65		1041	14.6
iM5245	TO-252-3L	NMOS	150	±12	21	15	52		1405	34
iM7117	TOLL-8L	NMOS	150	±20	148	94	5.1		5535	99
iM7123*	TOLL-8L	NMOS	150	±20	128	91	6		9198	137
iMN035N15T	TOLL-8L	NMOS	150	±20	203	143	3.8		11947	211
iM18135*	PDFN3.3x3.3-8L	NMOS	200	±20	11	7.2	80		1102	21
iM18143*	PDFN5x6-8L	NMOS	200	±20	15	10	77		1106	20
iMN220N20G	PDFN5x6-8L	NMOS	200	±20	35	24	19		3869	64
iMN08N20T	TOLL-8L	NMOS	200	±20	114	81	7.7		9182	186

P-channel 20 - 30 V

*:New

Part Number	Package	Type	V _{DS} (V)	V _{GS} (+V)	I _{DS} (A)		R _{DS(ON)} (mΩ max) at V _{GS} =		C _{iss} (pF)	Q _g (nC)
					TC=25°C	TC=100°C	10V	4.5V		
iM1891	DFN3.3x3.3-8L	PMOS	-20	±12	-54		6.6	9.5	8537	82
iM1802	PQFN5x6-8L	PMOS	-20	±12	-100		2.4	2.9	15400	299
iM2132A	SOT23-3L	PMOS	-20	±12	-4.3			30	1380	15
iM3415	SOT23-3L	PMOS	-20	±8	-4			37	1081	13
iM3415D	SOT23-3L	PMOS	-20	±8	-3.5			43	902	10
iM1804	DFN3.3x3.3-8L	PMOS	-30	±25	-54		7.5	11.5	5963	126
iM1808	PDFN3.3x3.3-8L	PMOS	-30	±20	-39		9	16	3503	60
iM1814	PDFN3.3x3.3-8L	PMOS	-30	±20	-25.6		21	36	1882	30
iM1810	PDFN5x6-8L	PMOS	-30	±20	-33	-21	21	36	1800	31.6
iM1812	PDFN5x6-8L	PMOS	-30	±20	-47	-30	10.5	18.5	3848	62
iM1812A	PDFN5x6-8L	PMOS	-30	±20	-47	-30	10.5	18.5	3835	62.5
iM2307	SOT23-3L	PMOS	-30	±20	-3	-2	80	140	650	10
iM2312*	SOT23-3L	PMOS	-30	±10	-3.3	-2.1		58	1095	11
iM3401	SOT23-3L	PMOS	-30	±12	-4.3	-2.7	50	60	750	17
iM3407	SOT23-3L	PMOS	-30	±20	-3	-1.9	60	100	619	11
iM4004	SOP-8L	PMOS	-30	±20	-11	-7	10.5	16	3477	64
iM4010	SOP-8L	PMOS	-30	±20	-14.6	-9	6.25	9	7142	146

P-channel 30 - 100 V

*:New

Part Number	Package	Type	V _{DS} (V)	V _{GS} (+V)	I _{DS} (A)		R _{DS(ON)} (mΩ max) at V _{GS} =		Ciss (pF)	Qg (nC)
					TC=25°C	TC=100°C	10V	4.5V		
iM4012	SOP-8L	PMOS	-30	±20	-7.9	-5	21	34	1801	31
iM9435	SOP-8L	PMOS	-30	±25	-5.7	-3.6	50	80	630	12
iM5208	TO-252-3L	PMOS	-30	±20	-48	-30	10	16	3500	61
iM5222	TO-252-3L	PMOS	-30	±20	-42	-27	18	32	1903	34
iMN70P03K	TO-252-3L	PMOS	-30	±20	-70		6.5	11	7060	106
iM1824*	PDFN5x6-8L	PMOS	-40	±20	-65	-46	9	13.5	6102	98
iM5204	TO-252-3L	PMOS	-40	±20	-20	-13	50	75	1156	20
iM1806	DFN3.3x3.3-8L	PMOS	-60	±20	-31		28	35	3431	61
iM1822*	PDFN5x6-8L	PMOS	-60	±20	-33.7	-21	21.5	31	4607	75
iM1893	PDFN5x6-8L	PMOS	-60	±20	-71	-45	6.8	9	12542	222
iM5212	TO-252-3L	PMOS	-60	±20	-23	-14	60	80	1463	25
iM5214	TO-252-3L	PMOS	-60	±20	-38	-24	23	33	4548	72.3
iM1820	DFN3.3x3.3-8L	PMOS	-100	±20	-11	-7	74	83	4363	76
iM1816	PDFN5x6-8L	PMOS	-100	±20	-10	-6.9	200	220	1487	26.6
iM1818	PDFN5x6-8L	PMOS	-100	±20	-21	-13	73	83	4292	73
iMN180P10G	PDFN5x6-8L	PMOS	-100	±20	-73	-51	20	24	14265	245
iM2304	SOT23-3L	PMOS	-100	±20	-1.1	-0.73	300	330	963	18
iM5210	TO-252-3L	PMOS	-100	±20	-10	-6.6	215	230	1546	26.7
iM5216	TO-252-3L	PMOS	-100	±20	-17.5	-11	97	115	3049	54
iM5218	TO-252-3L	PMOS	-100	±20	-23	-14	74	83	4258	73
iM5224*	TO-252-3L	PMOS	-100	±20	-32	-20	39	64	1244	27

Dual N 30 - 40 V

Part Number	Package	Type	V _{DS} (V)	V _{GS} (±V)	I _{DS} (A)		R _{DS(ON)} (mΩ max) at V _{GS} =		Ciss (pF)	Qg (nC)
					TC=25°C	TC=100°C	10V	4.5V		
iM1625	PDFN3.3x3.3-8L	Dual N	30	±20	33		12	20	1106	20.6
iM1627	PDFN3.3x3.3-8L	Dual N	30	±20	16.5	16.5	17	26	942	16.9
iM1623T	PDFN5x6-8L	Dual N	30	±20	10		15	26	1090	21
iM1635	PDFN5x6-8L	Dual N	30	±20	72/96	48/92	4.6/2.3	7.8/3.6	954/2292	18/42
iM4504	SOP-8L	Dual N	30	±20	7.7	4.9	22	30	663	13
iM4505	SOP-8L	Dual N	30	±20	6.7	4.2	29	48	380	7.5
iM4507	SOP-8L	Dual N	30	±20	10.5	6.6	12	19	1183	23
iM4503	SOP-8L	Dual N	36	±20	6.2	3.9	35	52	500	12
iM1621	PDFN5x6-8L	Dual N	40	±20	28		29	46	624	11.8
iM4506	SOP-8L	Dual N	40	±20	8.7	5.5	17.5	24	1055	20

Dual N 60 - 100 V

*:New

Part Number	Package	Type	V _{DS} (V)	V _{GS} (±V)	I _{DS} (A)		R _{DS(ON)} (mΩ max) at V _{GS} =		Ciss (pF)	Qg (nC)
					TC=25°C	TC=100°C	10V	4.5V		
iM4946	SOP-8L	Dual N	60	±20	6.2	3.9	34	45	1111	20
iM1641*	DFN2x2-6L	Dual N	100	±20	5.7	3.7	112	156	156	4.4
iM1631	PDFN3.3x3.3-8L	Dual N	100	±20	9		125	135	1006	18.8
iM1629	PDFN5x6-8L	Dual N	100	±20	31	19.8	18	28	1065	24
iM1637	PDFN5x6-8L	Dual N	100	±20	7.5	4.8	125	135	1096	21
iM1639	PDFN5x6-8L	Dual N	100	±20	9.4	5.9	80	90	1618	29
iM4508*	SOP-8L	Dual N	100	±20	3	1.9	108	152	157	5

Dual P 30 V

Part Number	Package	Type	V _{DS} (V)	V _{GS} (±V)	I _{DS} (A)		R _{DS(ON)} (mΩ max) at V _{GS} =		Ciss (pF)	Qg (nC)
					TC=25°C	TC=100°C	10V	4.5V		
iM4953	SOP-8L	Dual P	-30	±20	-5.1	-3.2	50	80	665	12

Complementary N+P 30 - 40 V

Part Number	Package	Type	V _{DS} (V)	V _{GS} (±V)	I _{DS} (A)		R _{DS(ON)} (mΩ max) at V _{GS} =		Ciss (pF)	Qg (nC)
					TC=25°C	TC=100°C	10V	4.5V		
iM1703	PDFN3.3x3.3-8L	N+P	±30	±20	16/-16	13/-12	29/34	50/55	370/1202	7.3/21
iM1709	PDFN3.3x3.3-8L	N+P	±30	±20	20/-20	19.5/-13.5	14.5/30	22/50	1179/1231	22/22
iM1712	PDFN3.3x3.3-8L	N+P	±30	±20	20/-15	14.6/-10	26/55	41/85	382/660	7.6/11
iM1713	PDFN3.3x3.3-8L	N+P	±30	±20	20/-17	14.6/-10.8	26/47	41/72	395/787	7.7/14
iM1717	PDFN3.3x3.3-8L	N+P	±30	±20	24/-24	23/-15	8.7/20	12.3/32	724/1987	14/33
iM1701	PDFN5x6-8L	N+P	±30	±20	42/-28	27/-18	13/29	21/50	1070/1199	20/21
iM1706	PDFN5x6-8L	N+P	±30	±20	39/-22	25/-14	7.5/25	10.5/42	2596/1838	47/31
iM1706A	PDFN5x6-8L	N+P	±30	±20	39/-22	25/-14	7.5/25	10.5/42	2596/1838	47/31
iM1718	PDFN5x6-8L	N+P	±30	±20	45/-28	28/-18	7.2/19	10.5/32	721/1985	14/33
iM2704A	SOT23-6L	N+P	±30	±20	3.9/-2.9	2.5/-1.8	35/65	55/100	620/636	11/13.4
iM4711A	SOP-8L	N+P	±30	±20	6/-4.5	3.9/-2.8	35/65	55/120	600/629	11.9/11.2
iM4713	SOP-8L	N+P	±30	±20	6/-4.5	3.9/-2.8	35/65	55/120	600/629	11/11.9
iM4714	SOP-8L	N+P	±30	±20	9.4/-6.6	5.9/-4.2	15/30	26/58	1143/1021	21/20
iM4719	SOP-8L	N+P	±30	±20	7.4/-6.7	4.7/-4.2	24/29	40/46	389/1260	7.6/23
iM4720	SOP-8L	N+P	±30	±20	6.7/-5.3	4.2/-3.3	26/47	41/78	383/722	8/14
iM4711	SOP-8L	N+P	±32	±20	6/-4.5	3.9/-2.8	35/65	55/120	690/585	11.9/10.5
iM5300	TO-252-4L	N+P	±32	±20	25/-18	16/-12	35/65	55/120	650/590	11/10
iM1705	DFN3x3-8L	N+P	±40	±20	17/-17	13.8/-12.5	29/35	37/52	653/1700	13/27
iM1710	PDFN3.3x3.3-8L	N+P	±40	±20	20/-17.7	14/-11.2	28/44	50/67	676/1132	12/20.6

Complementary N+P 40 - 100 V

Part Number	Package	Type	V _{DS} (V)	V _{GS} (±V)	I _{DS} (A)		R _{DS(ON)} (mΩ max) at V _{GS} =		Ciss (pF)	Qg (nC)
					TC=25°C	TC=100°C	10V	4.5V		
iM1711	PDFN3.3x3.3-8L	N+P	±40	±20	20/-16	13.8/-10.6	29/49	45/70	613/1161	11.8/20.4
iM1700	PDFN5x6-8L	N+P	±40	±20	29/-29	18/-18	27/43	38/65	658/1094	12/19
iM1704	PDFN5x6-8L	N+P	±40	±20	44/-27	28/-17	12/32	17/45	1586/1632	29/27
iM1704A	PDFN5x6-8L	N+P	±40	±20	36/-26	28/-16	13/34	18/53	1584/1759	31/28
iM4712	SOP-8L	N+P	±40	±20	6/-5.1	3.9/-3.2	35/50	55/75	600/1100	12/19.5
iM4715	SOP-8L	N+P	±40	±20	6.6/-5.1	4.2/-3.2	30/50	36/70	651/1159	13/20
iM5303	TO-252-4L	N+P	±40	±20	24/-24	23/-19	17/31	24/46	1081/1690	21/28
iM5304	TO-252-4L	N+P	±40	±20	24/-24	24/-13	12/32.5	17/53	1609/1764	31/28
iM5305	TO-252-4L	N+P	±40	±20	24/-24	21/-17	20/31	27/47	1115/1640	20/27
iM5306	TO-252-4L	N+P	±40	±20	24/-22	23/-14	17/46	24/70	1069/1163	20/20
iM1714	DFN3x3-8L	N+P	±60	±20	17/-14	11/-9	40/66	50/85	1071/1449	18/25
iM1714A	PDFN3.3x3.3-8L	N+P	±60	±20	15.7/-12.2	9.9/-7.8	40/66	50/85	1061/1428	19/24
iM1702	PDFN5x6-8L	N+P	±60	±20	25/-15	16/-9	35/100	45/132	1017/918	19/16
iM1708	PDFN5x6-8L	N+P	±60	±20	26/-18	16.6/-12	34/67	45/88	1041/1420	19.4/24
iM1708A	PDFN5x6-8L	N+P	±60	±20	24/-19	15.5/-12.4	39/61	46/79	1047/1457	20/25
iM4716	SOP-8L	N+P	±60	±20	5.9/-4.4	3.7/-2.8	38/67	50/88	1042/1325	19/25
iM4717	SOP-8L	N+P	±60	±20	5.9/-3.5	3.7/-2.2	38/107	50/136	1042/889	18.9/16
iM5301	TO-252-4L	N+P	+60	±20	24/-15.2	16.4/-9.7	35/100	45/132	997/923	19/16
iM5302	TO-252-4L	N+P	±60	±20	23/-17.8	14.8/-11.3	43/73	47/100	1025/1436	19/23.9
iM1716	PDFN3.3x3.3-8L	N+P	±100	±20	7.2/-6.7	4.5/-4.2	140/190	155/215	1128/1464	20/27
iM1707	PDFN5x6-8L	N+P	±100	±20	13.3/-10.8	8.5/-6.9	130/200	145/230	1051/1503	19/26
iM1715	PDFN5x6-8L	N+P	±100	±20	6.8/-12	4.3/-7.6	125/75	135/85	1114/4234	21/71
iM4718	SOP-8L	N+P	±100	±20	3.2/-2.0	2.0/-1.2	130/325	145/360	1084/946	19.2/18

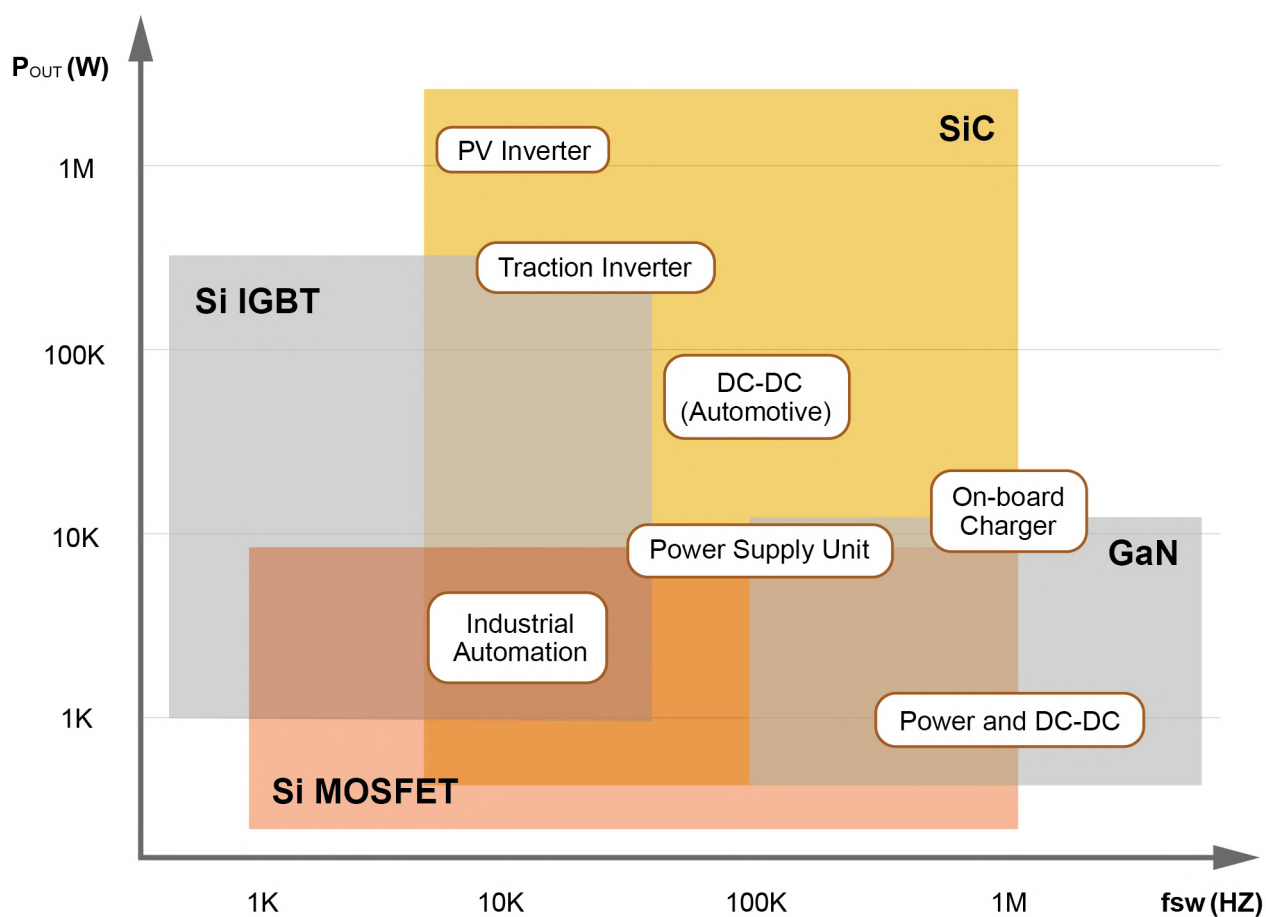
Small-signal

Part Number	Package	Type	V _{DS} (V)	V _{GS} (±V)	I _{DS} (A)		R _{DS(ON)} (mΩ max) at V _{GS} =		Ciss (pF)	Qg (nC)
					TC=25°C	TC=100°C	10V	4.5V		
T2N7002ELT1G	SOT23-3L	NMOS	60	±20	0.43		3000	4000	30	305
iM2001	SOT23-3L	NMOS	100	±20	0.18		6000	9000	31	1.5
iM2313	SOT23-3L	PMOS	-60	±20	-0.35	-0.22	3300	4000	31	1.6

view more



功率半导体的应用



PSU

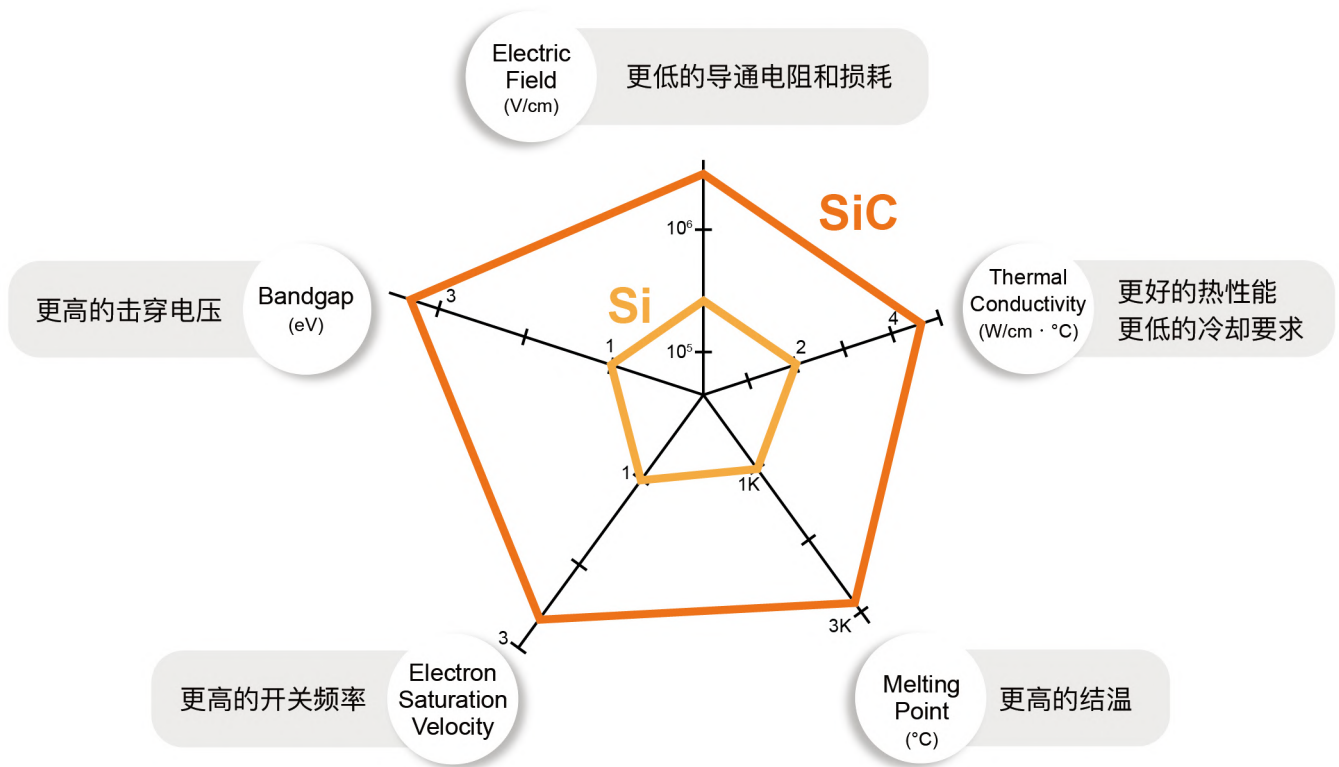


Charging Stations



PV Inverters

宽能隙材料



Electrical Characteristic	Effect	Silicon	Silicon-Carbide
		FRD	JBS
耐受电压 Withstand Voltage	开关尖峰电压 Voltage Surge in Switching	● ● ●	● ● ● ● ●
尖峰电流 Surge Current	尖峰电流耐受能力 Inrush Current	● ● ● ● ●	● ● ● ● ● ● ●
漏电流 Leakage Current	损耗/系统寿命 Losses / System Life	● ●	● ● ● ● ●
正向电压 Forward Voltage	效率 Efficiency	● ● ●	● ● ●
反向恢复时间 Reverse Recovery Time	效率 Efficiency	●	● ● ● ● ●

Note : More is better

特性比较



SiC Package



SiC MOSFET

* : Coming Soon

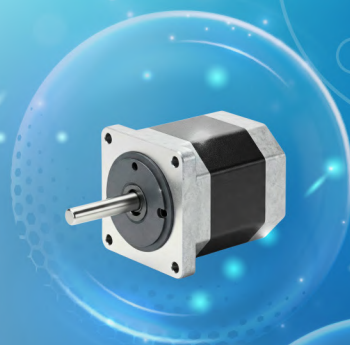
Voltage Rating	Package Ron	TOLL	TO-247-4L	TO-263-7L	QDPAK
650V	18mΩ	-	iM065C018BH*	-	-
	27mΩ	-	iM065C027BH*	-	-
	35mΩ	iM065C035AT	-	-	-
	50mΩ	iM065C050BT	-	-	-
	65mΩ	iM065C065BT*	-	-	-
750V	9mΩ	iM075C009BT*	-	-	-
1200V	14mΩ	-	iM120C014CH*	iM120C014CK*	iM120C014BX*
	32mΩ	-	iM120C032CH*	-	-
	40mΩ	-	iM120C040CH*	-	-
	75mΩ	-	iM120C075CH*	-	-

SiC Schottky Diode

* :Coming Soon

Voltage Rating	Package IF	TO-252	DFN8X8	TO-220/F	TO-247-2L	TO-247-3L
650V	4A	iS065C04CD	iS065C04CM*	iS065C04CE	-	-
	6A	iS065C06CD	iS065C06CM*	iS065C06CE	-	-
	8A	iS065C08CD	iS065C08CM*	iS065C08CE	-	-
	10A	iS065C10CD	iS065C10CM*	iS065C10CE	-	-
	12A	-	-	iS065C12CE*	-	-
	16A	-	-	iS065C16CE*	iS065C16CH*	-
	20A	-	-	iS065C20CE*	iS065C20CH*	-
	30A	-	-	-	-	iS065C30CH*
	50A	-	-	-	-	iS065C50CH*

Voltage Rating	Package IF	TO-220	TO-247-2L	TO-247-3L
1200V	5A	iS120C05CE*	-	-
	10A	iS120C10CE*	iS120C10CH*	-
	15A	iS120C15CE*	iS120C15CH*	-
	20A	iS120C20CE*	iS120C20CH*	-
	30A	-	iS120C30CH*	-
	40A	-	-	iS120C40CH*
	50A	-	-	iS120C50CH*



>50W



Charging Station



Server Fan



Server CDU



Air Conditioner



Hair Dryer



Leaf Blower

<50W



Telecom Station



Pedestal Fan



LV / HV Ceiling Fan



Robotic Vacuum



Air Purifier FAN



Water Heater



Air Conditioned Clothing

<20W



VGA, GPU Fan



VGA Liquid Pump



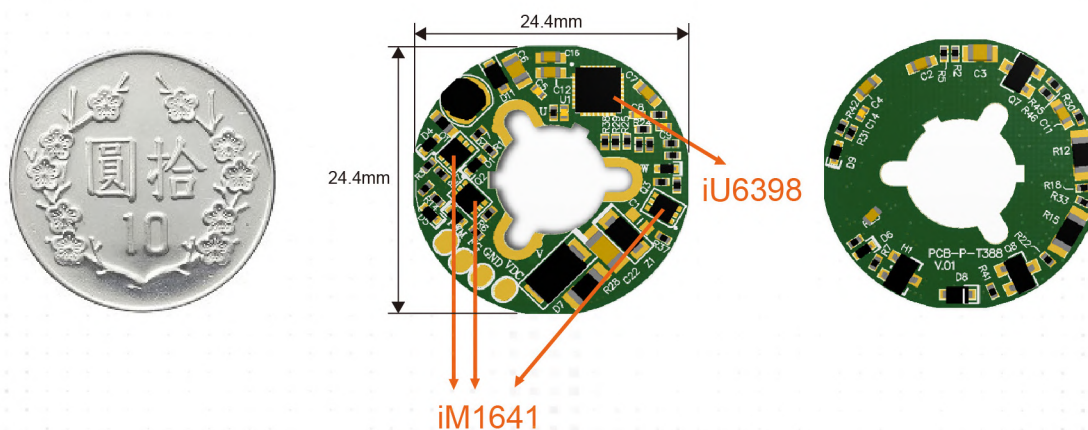
Refrigerator FAN

BLDC 电机驱动核心元件



BLDC Motor Driver Products

	Single Phase	3-Phase			
48V	Controller iU6291 - Voltage: 7V~32V - Controller with LDO - QFN4x4-20L	Controller iU6319 - Voltage: 5V - Controller 180° w/sensor - SSOP-20L	Pre-driver iU6398 - Voltage: 20V~80V - Gate Driver / Buck - FOC Sensor-less - QFN4x4-32L	Controller (HA) iU6399 - Voltage: 5.5V~24V - Controller with LDO - FOC Sensor-less - TSSOP-24L	
	Pre-driver iU6291 - Voltage: 7V~32V - P/N Driver - QFN4x4-20L	Pre-driver iU6312 - Voltage: 7V~32V - P/N Driver 180° w/sensor - QFN5x5-32L	Pre-driver iU6322 - Voltage: 7V~32V - P/N Driver 180° w/sensor - SSOP-28L	Pre-driver iU6391 - Voltage: 7V~32V - P/N Driver - FOC Sensor-less - QFN4x4-28L	Pre-driver (HA) iU6393 - Voltage: 7V~32V - P/N Driver - FOC Sensor-less - QFN4x4-28L
24V 12V		Pre-driver iU6321 - Voltage: 4V~15V - P/N Driver 120° Sensor-less - SSOP-24L	All-in-One iU6866 - Voltage: 6V~32V - N/N MOSFET 120° Sensor-less - QFN4x4-24L		



4028 48V 1A FOC Solution

SoC

P/N	Package	Hall Sensor	Input Voltage	Output Current Limit	Speed Control	Speed Curve Fitting
iT1300E	DFN3x3-8L	Embedded	3.5-16V	1.2A	Direct PWM	N/A
iT1300T	TSOT23-6L	Embedded	3.5-16V	1.2A	Direct PWM	N/A
iT8300S	SOP8	Embedded	3.5-16V	1.2A	Direct PWM	N/A
iT8300T	TSOT23-6L	Embedded	3.5-16V	1.2A	Direct PWM	N/A
iT8320E	DFN3x3-8L	External	3.5-16V	2.1A	Direct PWM	3 points
iT8321E	DFN3x3-8L	Embedded	3.5-16V	2.1A	Direct PWM	3 points
iT8330E	DFN3x3-8L	External	3-28V	1.2A	Direct PWM & DC VSP	3 points

IPM

Half-Bridge IPM

* : Coming Soon

P/N	Package	Voltage Class	Configuration	RDS(ON)	Other Features
iT62241A	QFN7x7-23L	500V	HIN+EN	2 Ω	BS-Diode / Temp. Sensor
iT62245A	QFN7x7-23L	250V	HIN+EN	2 Ω	BS-Diode / Temp. Sensor
iT62216*	QFN7x7-23L	300V	HIN+EN	1 Ω	BS-Diode
iT62218*	QFN7x7-23L	600V	HIN+EN	3 Ω	BS-Diode

3-phase IPM

P/N	Package	Voltage Class	Current	Other Features
iT55031	SOP-23H	500V	3 A	BS-Diode / Temp. Sensor
iT56021	SOP-23H	600V	2 A	BS-Diode / Temp. Sensor
iT56041	SOP-23H	600V	4 A	BS-Diode / Temp. Sensor
iT56051	SOP-23H	600V	5 A	BS-Diode / Temp. Sensor

Hall Sensor

P/N	Package	Supply Voltage	Supply Current(MAX)	Operation Point	Release Point	Hysteresis (BOP-BRP)
iA1173S	SOT23-3L	2.5V~26V	5 mA	-60~-5 Gauss	5~60 Gauss	60 Gauss
iA1188D	SOT23-3L	2.5V~26V	5 mA	-25~-5 Gauss	5~25 Gauss	30 Gauss
iA1188I	SIP-3L	2.5V~26V	5 mA	-25~-5 Gauss	5~25 Gauss	30 Gauss
iA1188N	DFN1.6x1.6	2.5V~26V	5 mA	-25~-5 Gauss	5~25 Gauss	30 Gauss
iA1189S	SOT23-3L	2.5V~5.5V	3 mA	-35~-10 Gauss	10~35 Gauss	45 Gauss

应用方案

信息及通讯设备



VGA 风扇 VGA Fan

AIO : iT1300

VGA 液冷水泵 VGA Liquid Pump

AIO : iT8321 , iT8330

Controller with Pre-Driver :
iU6391 + P/N MOSFET

特性：

- 高度集成
- 运行安静
- 效率高



服务器风扇 Server Fan

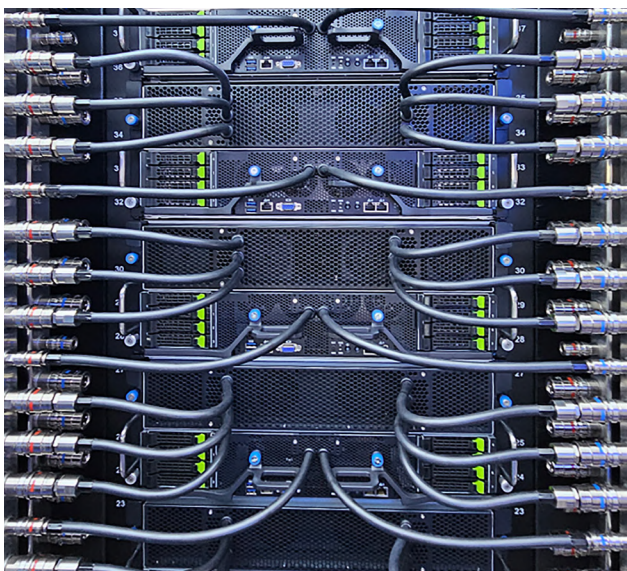
Controller with Pre-Driver :
iU6320 + N/P MOS

特性：

- 启动平稳
- 响应速度快
- 效率高

应用方案

信息及通讯设备



服务器 CDU 水泵 Server CDU Pump

12V Controller with Pre-Driver :
iU6391 + N/P MOS

48V Controller with Pre-Driver :
iU6398 + N/N MOS

特性：

- 精准控制
- 响应速度快
- 效率快



通讯基站 Telecom Station

12V Controller with Pre-Driver :
iU6391 + N/P MOS

48V Controller with Pre-Driver :
iU6398 + N/N MOS

特性：

- 精準控制
- 响应速度快
- 效率快

应用方案

白色家电



冰箱扇 Refrigerator Fan

AIO : iT8300T / iT1300E

特性：

- 高度集成
- 运行安静
- 效率高



空调室内机 Air Conditioner

Controller + IPM :
iU6399 + iT56041/ iT56051

特性：

- 运行安静
- 效率高



强排热水器 Water Heater

Controller :
iU6317 + Hall + N/P MOS

Controller with Pre-Driver :
iU6398 + N/N MOS

特性：

- 运行安静
- 效率高
- 高电流精度

应用方案

家电



空气净化器 Air Purifier

Controller with Pre-Driver :
iU6312 + Hall + N/P MOS

特性：

- 运行安静
- 效率高



扫地机器人 Robotic Vacuum

Controller with Pre-Driver :
iU6393 + N/P MOS

特性：

- 响应速度快
- 效率高
- 恆功率控制

应用方案

家电



手持吸尘器 Cordless Vacuum

Controller with Pre-Driver :
iU6393 + N/P MOS

特性：

- 高速运行
- 效率高



按摩椅 Massage Chair

Controller :
iU6319 + N/P MOS

特性：

- 低噪音
- 高扭力

应用方案

家电



立扇 Pedestal Fan

Controller with Pre-Driver :
iU6393 + N/P MOS

特性：

- 运行安静
- 效率高



高压吊扇 HV Ceiling Fan

Motor : iU6399 + IPM
Power HV-BUCK : iP7612S

中低压吊扇 LV Ceiling Fan

Motor : iU6393 + P/N MOSFET
Power Flyback : iP7306

特性：

- 启动无反转
- 自我调整
- 效率高

应用方案

家电



筋膜枪 Fascia Gun

Controller with Pre-Driver :
iU6312 + N/P MOS

特性：

- 响应速度快
- 精准电流保护



吹风机 Hair Dryer

Controller + IPM :
iU6399 + iT62241A
Power HV Buck : iP7612S

特性：

- 效率高
- 恒功率
- 恒转速



高速风筒 High Power Air Duster

Controller with Pre-Driver :
iU6321 + N/P MOS

特性：

- 转速快
- 效率高

应用方案

家电



冰沙机 Smoothie Machine

Controller with Pre-Driver :
iU6393 + N/P MOS

特性：

- 高转速
- 效率高



破壁机 High Power Blender

Total Solution

特性：

- 高转速
- 高扭力



RO 淨水器 RO Pump

Controller with Pre-Driver :
iU6393 + N/P MOS

特性：

- 运行安静
- 效率高

应用方案

其他



烘被机 Bed Warmer

Controller with Pre-Driver :
iU6322 + N/P MOS

特性：

- 运行安静
- 风量稳定



迷你洗衣机 Portable Wash Machine

Controller with Pre-Driver :
iU6322 + N/P MOS

特性：

- 快速正反转控制

应用方案

其他



电动窗帘 Electric Curtains

Controller with Pre-Driver :
iU6322 + N/P MOS

特性：

- 运行安静
- 转速精准



电动门 Automatic Door

Controller with Pre-Driver :
iU6312 + N/P MOS

特性：

- 响应速度快

应用方案

其他



冷链 Cold Chain

Controller + IPM :
iU6399 + iT55031

Power HV-BUCK : iP7612S

UL60730-B : iP7708

特性：

- 转速控制
- 效率高
- 安规认证



空调服 Air Conditioned Clothing

AIO : iT8300 , iU6866

特性：

- 运行安静
- 效率高

应用方案

其他



空调座椅 Seat Comfort System

AIO : iT8321E
Controller with Pre-Driver :
iU6391 + N/P MOS

特性：

- 高度集成
- 运行安静
- 效率高



充电桩散热 Charging Station

Controller + IPM :
iU6319 + iT55031

特性：

- 运行安静
- 效率高



无人机 Drone

Controller with Pre-Driver :
iU6398 + N/N MOS

特性：

- 响应快速
- 高度电源整合
- 效率高

 +886-3-5525766

 www.inergy-ic.com.cn

 8F.-3, No. 8, Taiyuan 2nd St., Zhubei City Hsinchu County 302, Taiwan

 R1505-1508, Block A, Xinian Center, No.6021 Shennan Rd, Shenzhen, China

